

**Charlie A. Dooley**  
County Executive

**Saint Louis**  
**COUNTY**  
**HIGHWAYS & TRAFFIC**  
**PUBLIC WORKS**

*Sheryl L. Hodges, D.E., P.E., L.P.G.*  
Director

August 14, 2014

Mr. James Schmidt, P.E.  
District Design Liaison  
Missouri Department of Transportation  
St. Louis Metro District  
1590 Woodlake Drive  
Chesterfield, MO 63017-5712

RE: Public Interest Finding Letter  
Mason Road Bridge No. 211  
Federal Project No. STP-5574(604)  
St. Louis County Project No. AR-1133  
P. S. & E. Submittal

Dear Mr. Schmidt:

St. Louis County is requesting FHWA approval to use a Proprietary Specification for the Hydro International 4' Downstream Defender Hydrodynamic Separator (HDS) Structural Best Management Practice (BMP).

St. Louis County's projects must receive permit approval from the Metropolitan St. Louis Sewer District (MSD) for all improvement projects for compliance with the Federal Clean Water Act, Phase II storm water permit requirements. On this project site, a permanent BMP must be constructed at each end of the proposed bridge structure for the treatment of storm water runoff to meet the Phase II permit requirements.

Due to the topography of this project site and right-of-way constraints, a structural treatment solution is the only viable method to treat storm water on this project site.

Currently, all structural treatment solutions approved by MSD for Highway Use Level (HUL) or General Use Level (GUL) are proprietary. Further, the approved proprietary structural treatment solutions are not interchangeable. Each product has different performance characteristics, inlet and outlet geometries, invert elevations, and footprints. Due to the distinct differences between these treatment structures, MSD requires that a single solution be chosen and incorporated into the design of the project prior to plan approval. Design-build and performance based specifications for these special structures will not be accepted. MSD will not grant permit approval until plans, shop drawings, and calculations are submitted for the specific structural BMP to be used on a project.

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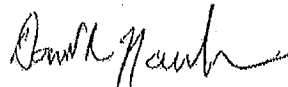
Due to the permitting process imposed by MSD, we have no viable method to provide for the selection of multiple proprietary structural BMPs on this project.

As the specification of a proprietary device is necessary for this project as detailed above, St. Louis County contacted three vendors of HDS structural BMP products to ensure our design used the lowest cost device which met our treatment flow rate requirements. Our research is summarized in the table below.

| <u>Vendor</u> | <u>Brand</u>        | <u>Product</u>         | <u>Price</u>            |
|---------------|---------------------|------------------------|-------------------------|
| ADS-Pipe      | Hydro International | 4' Downstream Defender | \$12,000 - \$13,000     |
| Contech       | Contech CDS         | CDS2025-5-C            | \$13,400                |
| Contech       | Contech CDS         | CDS3020-6-C            | \$16,600                |
| Kristar       | Kristar             | DVS-72 (6' Diameter)   | No response from vendor |

Thank you for your consideration in this matter, and if we can furnish any additional information, you may contact me at (314) 615-8595.

Sincerely,

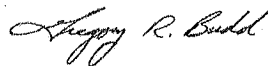


Daniel R. Naunheim, P.E.  
Division Manager, Design

DRN:JWK:jlh

cc: Sheryl L. Hodges, D.E., P.E., L.P.G., Director

**I do hereby attest that in accordance with the requirements of 23 CFR 635.411(c), the use of this patented or proprietary item is in the public interest.**



Digitally signed by GREGORY R BUDD  
DN: c=US, o=U.S. Government, ou=Department of  
Transportation, ou=FHWA FHWAJeffersonCityMO,  
cn=GREGORY R BUDD  
Date: 2014.08.27 09:24:12 -0500